

Introduction:

Fiberdyne Splitter/Coupler devices are bi-directional. If they are used to combine signals then they are “couplers.” If they are used to divide a signal then they are “splitters.”

Note:

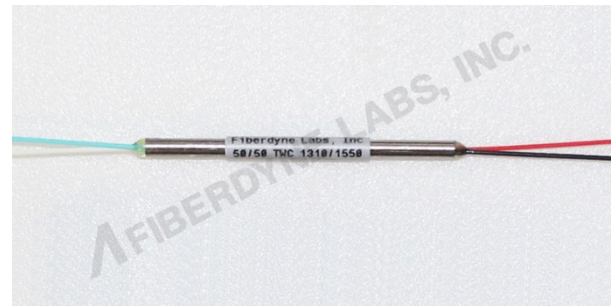
Both terms are often used, interchange-ably, to mean the same device. The multimode splitter/coupler, are typically applied to applications which use an “overfilled launch” (OFL). An OFL example is the LED transmitter, typically used in 10Base and 100 Base Ethernet multimode fiber links. An OFL fills the modes of the multimode fiber. These multimode splitter/couplers work best with OFL configurations.

Note:

New high-speed, multimode fiber links (e.g. 1000 Base-SX) use lasers. Typically, these 850-nm sources are VCSELs (vertical cavity surface emitting lasers). VCSELs do not provide an OFL into multimode fiber; they do not fill the mode-structure of the multimode fiber. For these applications, Fiberdyne recommends their “Laser Multimode” splitter/coupler.



1x2 900um Medium Duty Splitter/Coupler



2x2 900um Medium Duty Splitter/Coupler

Features:

- Multimode Dual Window (850/1300nm)
- Light Duty (250µm)
- Medium Duty (900µm) or Heavy Duty (3mm Jacket)
- Packaged Couplers are also available in modules.

Ordering Information														
F	M	C	-	X	X	X	-	X	X	X	-	X	X	X
				4	5	6	-	7	8	9	-	10	11	12
FMC - Fiberdyne Labs Dual Window Multimode Couplers														

4th Digit	Center Wavelength	1 = 850nm/1300nm
5th Digit	Ports	1 = 1x2 2 = 2x2
6th Digit	Package	0 = 250μm-- 0.13" x 2.2" 1 = 900μm-- 0.13" x 2.2" 2 = 3mm-- 4" x 0.6" x 0.3" Y - Y Cable (1x2, 3mm)
7th Digit	Grade	1 = Premium
8th & 9th Digits	Coupling Ratio	Specify First 2 Digits e.g 25 = 25/75 50 = 50/50
10th Digit	Fiber Type	0 = 50/125 1 = 62.5/125
11th Digit	Connectors	0 = None 1 = FC 3 = SC 5 = ST 7 = LC X = Custom Configuration (List as "Special Information") (e.g. SC Input to FC Output)
12th Digit	Overall Length	1 = 1 Meter 2 = 2 Meters

Multimode Coupler Modules Maximum Insertion Loss	
Number of Ports	Maximum Insertion Loss (dB)* Per Output Port
2x2	4.1
1x2	4.1
1x4	8.3
1x8	11
1x16	15
1x32	18
**Operating Temperature: -40C to +75C	
Directivity: >40dB	
*Insertion Loss value does not include connector loss	

Part Number	Split Ratio	Insertion Loss	Description
FMC-111-050-131	1x2, 50:50	4.1/4.1	900um Multimode Fiber, 62.5/125, 1 Meter Length, *SC Connectors Installed
FMC-111-045-131	1x2, 45:55	4.3/3.6	900um Multimode Fiber, 62.5/125, 1 Meter Length, *SC Connectors Installed
FMC-111-040-131	1x2, 40:60	5.1/3.1	900um Multimode Fiber, 62.5/125, 1 Meter Length, *SC Connectors Installed
FMC-111-035-131	1x2, 35:65	5.7/2.7	900um Multimode Fiber, 62.5/125, 1 Meter Length, *SC Connectors Installed
FMC-111-030-131	1x2, 30:70	6.3/2.4	900um Multimode Fiber, 62.5/125, 1 Meter Length, *SC Connectors Installed
FMC-111-025-131	1x2, 25:75	7.1/2.2	900um Multimode Fiber, 62.5/125, 1 Meter Length, *SC Connectors Installed
FMC-111-020-131	1x2, 20:80	8.1/1.8	900um Multimode Fiber, 62.5/125, 1 Meter Length, *SC Connectors Installed
FMC-111-015-131	1x2, 15:85	9.5/1.5	900um Multimode Fiber, 62.5/125, 1 Meter Length, *SC Connectors Installed
FMC-111-010-131	1x2, 10:90	11.5/1.3	900um Multimode Fiber, 62.5/125, 1 Meter Length, *SC Connectors Installed
FMC-111-005-131	1x2, 5:95	14.5/1.0	900um Multimode Fiber, 62.5/125, 1 Meter Length, *SC Connectors Installed